

Size: 125,000 acres
Mission: Provide housing, training facilities, logistic support, and administrative support to Fleet Marine Force Units
HRS Score: 33.79; placed on NPL in November 1989
IAG Status: Federal Facility Agreement signed in October 1990
Contaminants: Pesticides, herbicides, heavy metals, PCBs, and VOCs
Media Affected: Groundwater and soil
Funding to Date: \$96.9 million
Estimated Cost to Completion (Completion Year): \$106.0 million (FY2016)
Final Remedy in Place or Response Complete Date for All Sites: FY2012



Oceanside, California

Restoration Background

Environmental contamination at Camp Pendleton Marine Corps Base resulted from maintenance of vehicles and equipment and from such support facilities as gas stations, hospitals, laundries, pest control services, and hobby shops. Wastes generated by these operations were disposed of in various locations throughout the installation. Site types at the installation include landfills, surface impoundments, pesticide storage areas, fire training areas, vehicle maintenance areas, and underground storage tanks (USTs). The installation was placed on the National Priorities List (NPL) after the herbicide 2,4,5-TP (Silvex) was detected in two groundwater wells used for drinking water.

Of the 200 sites identified at the installation, 61 are CERCLA sites, 109 are RCRA sites, and 30 are UST program sites. The installation has completed Remedial Investigations and Feasibility Studies (RI/FS) for 55 CERCLA sites. RI/FSs for four CERCLA sites are under way. The installation has completed Interim Removal Actions at three sites, two of which were the highest risk sites on the installation. Two operable unit (OU) Records of Decision (RODs) have been signed.

The installation formed a technical review committee (TRC) and prepared a community relations plan in FY92. Although the TRC is active, interest has been insufficient to support formation of a Restoration Advisory Board.

During FY96, the installation completed RI for 21 sites and an FS for 13 sites and signed the final ROD for no further action (NFA) at OU1. All parties to the Federal Facility Agreement (FFA) signed the final ROD. The FFA project team identified five Removal Actions, closed six sites, accelerated the remediation schedule by 2 years, and decreased the investigation budget by \$3

million for the fiscal year. The installation completed an Engineering Evaluation and Cost Analysis and an Action Memorandum for the pest control wash rack and scrap yard sites and for Site 7 (the Box Canyon Landfill); initiated Interim Remedial Actions (IRAs) for three sites; completed the initial site characterization at 25 UST sites; and completed the investigation phase and prepared a corrective action plan (CAP) for four UST sites. During FY97, RIs were completed at 34 sites and a ROD was signed for 13 sites. IRAs were completed at the pest control wash rack and scrap yard sites. Soil stabilization aided in the cleanup of both of these pesticide-contaminated sites. A total of 6 acres was cleaned up to NFA standards. The FFA team used concurrent document review to expedite the review process in order to complete the IRAs, and obtained all ROD signatures before the end of FY97.

FY98 Restoration Progress

The installation completed Phase I of the Box Canyon Landfill, capping 5 acres of land. A Phase II RI was completed for four sites and an FS for six sites. A public meeting was held for OU3. Twenty-five sites were proposed for NFA, and six sites were proposed for Remedial Action (RA). The OU3 ROD was issued and reviewed. Regulatory concurrence was delayed by 4 months, and was not achieved by the end of the fiscal year, due to changes in state regulatory approaches. The installation completed a CAP for seven program sites and received regulatory approval for all completed CAPs. Operations and maintenance (O&M) for remediation of three gas station sites and two UST sites are ongoing. The installation completed the Remedial Design (RD) and RAs for seven UST sites. Site assessment (SA) began for four UST sites.

Plan of Action

- Complete and sign OU3 ROD and initiate OU RA in FY99
- Complete OU4 RI/FS and Proposed Plan in FY99
- Install remediation system for UST 12 and 13 cleanup and abatement order (CAO) 96-49 sites and perform O&M in FY99
- At UST 14, remediate six sites and prepare CAP in FY99
- Perform LTM for four UST 24 and two UST 26 sites in FY99
- Prepare CAP for one UST 27 site and one UST 53 site in FY99
- Install remediation system and perform O&M for UST 43 area gas station in FY99
- Apply for closure of approximately 40 UST 62 sites in FY99
- Install remediation system for 13 UST 100 sites in FY99
- Perform O&M and LTM for 10 UST 13 sites and 20 UST 22 sites in FY99 and for 10 UST 13 sites, 20 UST 22 sites, and 13 UST 100 sites in FY00
- Complete OU3 RA in FY00
- Initiate RA, complete RD, and sign ROD for OU4 in FY00
- Complete CAP implementation and O&M at UST 14 in FY00
- Apply for closure of approximately 40 UST 62 sites, 4 UST 24 sites, 2 UST 26 sites, 1 UST 27 site, and 1 UST 53 site in FY00
- Perform O&M for CAO 96-49 UST 12 and 13 sites and for UST 43 area gas station in FY00

FY99 FUNDING BY PHASE AND RELATIVE RISK

